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PTO/SB/08A (10-96)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 1 of 2

| Complete if Known      |               |
|------------------------|---------------|
| Application Number     | 10/063,559    |
| Filing Date            | May 2, 2002   |
| First Named Inventor   | David C. Kulp |
| Group Art Unit         | TBD-1631      |
| Examiner Name          | TBD Smith     |
| Attorney Docket Number | 3291.7        |

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MAY 20 2002  
PATENT & TRADEMARK OFFICE

## **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

**Examiner  
Signature**

Carly Jr

**Date Considered**

6/30/04

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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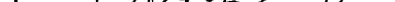
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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(use as many sheets as necessary) |   | Application Number       | 10/063,559    |
|   |   | Filing Date              | May 2, 2002   |
|   |   | First Named Inventor     | David C. Kulp |
|   |   | Group Art Unit           | TBD-1631      |
|   |   | Examiner Name            | IJD-Smith     |
| Sheet   | 2 | of                       | 2             |
|   |   | Attorney Docket Number   |               |
|   |   | 3291.7                   |               |


  
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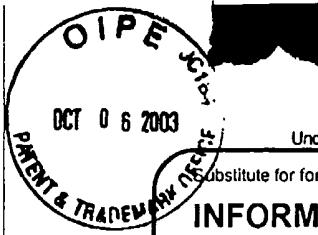
#### **OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

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|------------------------|----------------|
| Application Number     | 10/063,559     |
| Filing Date            | May 2, 2002    |
| First Named Inventor   | David C. Kulp  |
| Group Art Unit         | 2073-1631      |
| Examiner Name          | TBD - Smit, RL |
| Attorney Docket Number | 3291.7         |

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Attorney Docket Number

32917

#### **U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet

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**Complete if Known**

|                      |               |
|----------------------|---------------|
| Application Number   | 10/063,559    |
| Filing Date          | May 2, 2002   |
| First Named Inventor | David C. Kulp |
| Group Art Unit       | 2673          |
| Examiner Name        | TBD           |

Attorney Docket Number 3291.7

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials * | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|---------------------|-----------------------|---|----------------|
| CS                  | 2                     | REESE et al. Genie-Gene Finding in Drosophila melanogaster. Genome Research. 2000. Volume 10, Pages 529 - 538, especially page 529  | x              |
| CS                  | 3                     | WAGNER, A. A computational genomics approach to the identification of gene networks. 1997. Nucleic Acids Research. Volume 25, No. 18, pages 3594 - 3604, especially pages 3594 and 3600   | x              |
| CS                  | 4                     | CUFF et al. ProtEST: protein multiple sequence alignments from expressed sequence tags. Bioinformatics. 2000. Volume 16, No. 2, pages 111-116, especially pages 111-114.  | x              |
| CS                  | 5                     | CLAVERIE, J-M. Computational Methods for Exon Detection. Molecular Biotechnology. 1998. Volume 10, No. 1, pages 27-48, especially pages 33-35 and 39. Biotechnology. 1998.  | x              |
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Examiner Signature

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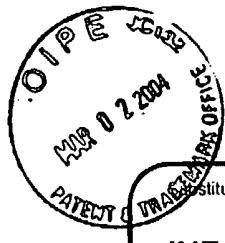
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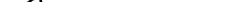
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| Institute for form 1449A/PTO   |   | Application Number     | 10/063,559    |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b>   |   | Filing Date            | 5/2/2002      |
| (Use as many sheets as necessary)  |   | First Named Inventor   | David C. Kulp |
| Sheet  | 1 | of                     | 2             |
|  |   | Art Unit               | 1631          |
|  |   | Examiner Name          | Carolyn Smith |
|  |   | Attorney Docket Number | 3291.7        |

## **U.S. PATENT DOCUMENTS**

| Examiner Initials * | Cite No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|---------------------|-----------------------|--|--------------------------------|--|---|
|                     |                       | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| CS                  | 1                     | US-6,180,351 B1                            | 1/30/01                        | Cattell  |   |
|                     | 2                     | US- 6,505,125 B1                           | 1/7/03                         | Ho   |   |
|                     | 3                     | US- 6,584,410 B2                           | 6/24/03                        | Berno  |   |
|                     | 4                     | US- 6,600,996 B2                           | 7/29/03                        | Webster et al                                      |   |
|                     | 5                     | US- 6,611,767 B1                           | 8/26/03                        | Fiekowsky et al                                    |   |
|                     | 6                     | US- 2002/0045169 A1                        | 4/18/02                        | Shoemaker et al                                    |   |
|                     | 7                     | US- 2002/0052692 A1                        | 5/2/02                         | Fahy   |   |
|                     | 8                     | US- 2002/0059030 A1                        | 5/16/02                        | Otworth et al                                      |   |
|                     | 9                     | US- 2002/0091490 A1                        | 7/11/02                        | Russo et al  |   |
|                     | 10                    | US- 2002/0098508 A1                        | 7/25/02                        | Williams et al                                     |   |
|                     | 11                    | US- 2002/0120183 A1                        | 8/29/02                        | Abraham-Fuchs et al                                |   |
|                     | 12                    | US- 2002/0147549 A1                        | 10/10/02                       | Yoshida et al                                      |   |
|                     | 13                    | US- 2002/0150932 A1                        | 10/17/02                       | Mack et al   |   |
|                     | 14                    | US- 2002/0165674 A1                        | 11/7/02                        | Bassett, Jr. et al                                 |   |
|                     | 15                    | US- 2002/0168784 A1                        | 11/14/02                       | Sundrehagen et al                                  |   |
|                     | 16                    | US- 2002/0183933 A1                        | 12/5/02                        | Webster et al                                      |   |
|                     | 17                    | US- 2002/0187464 A1                        | 12/12/02                       | Klempner et al                                     |   |
|                     | 18                    | US- 2003/0009296 A1                        | 1/9/03                         | Sabatini et al                                     |   |
|                     | 19                    | US- 2003/0036857 A1                        | 2/20/03                        | Yao et al  |   |
|                     | 20                    | US- 2003/0040870 A1                        | 2/27/03                        | Anderson et al                                     |   |

## FOREIGN PATENT DOCUMENTS

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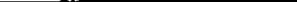
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**U.S. PATENT DOCUMENTS**

| Examiner Initials * | Cite No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of<br>Cited Document | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear |
|---------------------|-----------------------|--|--------------------------------|--|---|
|                     |                       | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| CS                  | 21                    | US-2003/0054394 A1                         | 3/20/03                        | Chin et al   |   |
|                     | 22                    | US-2003/0092053 A1                         | 5/15/03                        | Kwon   |   |
|                     | 23                    | US-2003/0097222 A1                         | 5/22/03                        | Craford et al                                      |   |
|                     | 24                    | US-2003/0099973 A1                         | 5/29/03                        | Wang et al   |   |
|                     | 25                    | US-2003/0108865 A1                         | 6/12/03                        | Inoue et al  |   |
|                     | 26                    | US-2003/0113756 A1                         | 6/19/03                        | Mertz  |   |
|                     | 27                    | US-2003/0124539 A1                         | 7/3/03                         | Warrington et al                                   |   |
|                     | 28                    | US-2003/0124589 A1                         | 7/3/03                         | Piper  |   |
|                     | 29                    | US-2003/0125315 A1                         | 7/3/03                         | Mjallii et al                                      |   |
|                     | 30                    | US-2003/0130801 A1                         | 7/10/03                        | Kagan  |   |
|                     | 31                    | US-2003/0134320 A1                         | 7/17/03                        | Barrus et al                                       |   |
|                     | 32                    | US-2003/0152969 A1                         | 8/14/03                        | Quake et al  |   |
|                     | 33                    | US-2003/0158671 A1                         | 8/21/03                        | Gajiwala   |   |
|                     | 34                    | US-2003/0167131 A1                         | 9/4/03                         | Chemama et al                                      |   |
|                     | 35                    | US-2003/0171875 A1.                        | 9/11/03                        | Frudakis   |   |
|                     | 36                    | US-2003/0176976 A1                         | 9/18/03                        | Gardner  |   |
|                     | 37                    | US-2003/0180766 A1                         | 9/25/03                        | Farnet et al                                       |   |
|                     | 38                    | US-2003/0182066 A1                         | 9/25/03                        | Konishi  |   |
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